Guillermo Pérez Ruiz

Tech Lead (Hands-On) / Senior Full-Stack Engineer

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> *Senior Engineer & Tech Lead with over 7 years of experience in platform modernization, scalable cloud architectures, and advanced automation. I act as a player-coach, bridging the gap between product strategy and engineering execution through direct implementation of high-impact changes.*

EXPERIENCE

Tech Lead (Hands-On) / Senior Full-Stack Engineer   2021 – Present
MAHLE SmartBike Systems | Remote

Technical owner of the digital ecosystem and internal systems, leading a team of 4 Full-Stack engineers. Orchestrated the complete transformation of a high-traffic legacy platform used by thousands of global users.

- Technical Leadership & Strategy: Managed team workflows, led technical decision-making, and aligned product requirements with architectural scalability.
- Legacy Modernization: Transformed a monolithic React/Express application with severe technical debt (no tests, no clear architecture) into a modern, micro-service ready system.
- Cloud Infrastructure: Fully dockerized the environment and migrated all services to AWS ECS (Fargate) with auto-scaling, ALB, and secure IAM policies.
- Frontend Orchestration: Migrated web frontend to S3 + CloudFront, optimizing global delivery, reducing costs and implementing custom WAF rules.
- Advanced CI/CD & Quality: Engineered automated pipelines with branch synchronization, release blocking mechanisms, and security gates using Snyk and SonarQube.
- React Evolution: Executed a zero-downtime progressive migration from Class Components to Hooks and TypeScript, improving development velocity and type safety.
- Data Layer Decoupling: Optimized storage by separating raw location data to S3, session management to Redis, and volatile configurations to MongoDB.
- Electron & Low-Level Hardware: Built and maintain an Electron desktop app for EOL manufacturing, integrating low-level CAN bus/UDS protocols for bike diagnostics.
- Observability & Monitoring: Implemented comprehensive monitoring with Grafana dashboards, CloudWatch alarms and health-check systems.

`React` `Node.js` `AWS (ECS/S3/ALB/Secrets)` `TypeScript` `Redis` `Docker` `Electron` `CAN bus` `UDS` `Grafana`

QA-DevOps & Full-Stack Developer / Tech Lead   2020 – 2023
Izertis S.A. (Client: Inditex) | Remote

Core member of a cross-functional enablement team defining software quality and DevOps standards for Inditex's global landscape (thousands of repositories).

- Enterprise Automation: Developed mass-analysis scripts to audit thousands of repositories, evaluating technical health across different departments.
- Application Discovery Platform: Headed the development of 'Yellow Pages' (React/Spring Boot), a centralized platform used company-wide to discover and manage services.
- Quality Standardization: Enforced quality gates (SonarQube, Jacoco) and unit test thresholds. Managed the global migration from Bamboo to GitHub Actions.

- Distributed Systems: Integrated real-time data synchronization using Kafka and implemented dedicated search engines for high-performance service discovery.
- Technical Auditing & Mentoring: Conducted periodic audits to ensure compliance with quality standards and provided training on testing and pipeline configuration.

React   Spring Boot   Kafka   GitHub Actions   Grafana   Go   SonarQube   Snyk   Jacoco

Full-Stack Programmer Analyst   **2018 – 2020**
Cognizant Technology Solutions | International / Valladolid

Full-stack development for KBC Bank (Belgium) in a high-demand microservices environment, working in 100% English-speaking international squads.

- Digital Banking Evolution: Developed and modernized banking flows, migrating legacy AngularJS components to modern Angular 4+.
- Microservices Architecture: Designed and implemented high-criticality financial microservices from scratch using Spring Boot and Scala.
- Engineering Excellence: Acted as a technical reference within the squad, conducting rigorous code reviews and implementing SonarQube standards.
- Agile Delivery: Operated within complex Scrum/SAFe frameworks, delivering high-integrity transactional features to thousands of bank customers.
- International Operations: Collaborated daily with distributed teams in Belgium, India, and the Czech Republic in a highly disciplined environment.

Angular   Spring Boot   Microservices   Jenkins   Scrum   Scala   AWS   SonarQube

SKILLS & EXPERTISE

LEADERSHIP & ARCHITECTURE

Tech Leadership, Player-Coach Model, Legacy Modernization, System Design, Agile (SAFe/Scrum), Technical Mentoring

FRONTEND & APPS

React (Hooks, Context), TypeScript, Next.js, Electron, Tailwind CSS, Angular, Responsive Design

BACKEND & SYSTEMS

Node.js (Express/NestJS), Java (Spring Boot), Go, Scala, Kafka, RESTful APIs, Microservices

DEVOPS & CLOUD

AWS (ECS, S3, CloudFront, Secrets), Docker, CI/CD (GitHub Actions, Jenkins), IaC (Terraform), Monitoring (Grafana, CloudWatch)

DATA & SECURITY

PostgreSQL, MongoDB, Redis, NoSQL, Snyk / SonarQube, Data Decoupling

AI & INNOVATION

AI Agent Integration, Generative AI APIs, Prompt Engineering, Model Fallback Strategies, AI-Driven Automation